

Express Mail Label No.: EL831676226US  
Date of Deposit: November 28, 2001

11/29/01  
Gan 1646  
Attorney Docket No.: 15966-789 (Cura-289)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

NOV 30 2001

#6 TECH CENTER 1600/2900

APPLICANTS : Padigaru et al.

SERIAL NUMBER : 09/844,861

EXAMINER : Not Yet Assigned

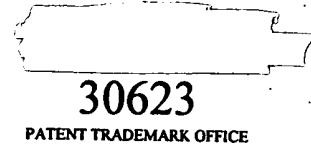
FILING DATE : April 27, 2001

ART UNIT : 1646

FOR : Novel Proteins and Nucleic Acids Encoding Same

BOX IDS

Assistant Commissioner for Patents  
Washington, D.C. 20231



TRANSMITTAL LETTER


Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (1 page), in duplicate;
2. Modified Form 1449/PTO (2 pages), in duplicate;
3. Copies of cited references C1-C30; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any additional fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 15966-789 (Cura-289). A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

  
Ivor R. Elmh, Reg. No. 39,529  
Cynthia A. Kozakiewicz, Reg. No. 42,764  
Attorneys for Applicant  
MINTZ, LEVIN, COHN, FERRIS,  
GLOVSKY and POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111.  
Tel: (617) 542-6000  
Fax: (617) 542-2241

Dated: November 28, 2001

Express Mail Label No.: EL831676226US  
Date of Deposit: November 28, 2001

Attorney Docket No.: 15966-789 (Cura-289)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

NOV 30 2001

TECH CENTER 1600/2900

APPLICANT(S): Padigaru et al.

SERIAL NO.: 09/844,861

FILING DATE: April 27, 2001

FOR: Novel Proteins and Nucleic Acids Encoding Same

**Box IDS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

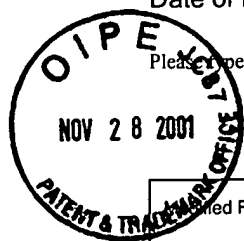
**INFORMATION DISCLOSURE STATEMENT**

Applicants hereby make of record the documents listed below and on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application, copies of which are submitted herewith. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required. A copy of each of the references is enclosed unless otherwise indicated on the attached Form PTO-1449 (modified). Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311 Reference No. 15966-789 (Cura-289).

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529  
Cynthia A. Kozakiewicz, Reg. No. 42,764  
Attorneys for Applicants  
c/o MINTZ, LEVIN, COHN, FERRIS  
GLOVSKY AND POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
Tel: (617) 542-6000  
Fax: (617) 542-2241

Dated: November 28, 2001



Please type a plus sign (+) in this box



PTO/SB (12-97)  
Approved for use through 9/30/00. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Application Number	09/844,861
	Filing Date	04/27/01
	First Named Inventor	Padigaru
	Group Art Unit	1646
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	15966-789 (Cura-289)

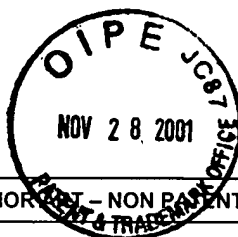
U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1						

FOREIGN PATENT DOCUMENTS					
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	B1				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1 ✓	Asai, H. et al. (1996). "Genomic structure and transcription of a murine odorant receptor gene: differential initiation of transcription in the olfactory and testicular cells." <i>Biochem. and Biophys. Res. Comm.</i> <u>221</u> : 240-247.
	C2 ✓	Ben-Arie, N. et al. (1994). "Olfactory receptor gene cluster on human chromosome 17: possible duplication of an ancestral receptor repertoire." <i>Hum. Mol. Genet.</i> <u>3</u> (2): 229-235.
	C3 ✓	Bulger, M. et al. (1999). "Conservation of sequence and structure flanking the mouse and human beta-globin loci: the beta-globin genes are embedded within an array of odorant receptor genes." <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>96</u> : 5129. SWALL (SPTR) Accession Number: <b>Q9WVD9</b>
	C4 ✓	Bulger, M. et al. (1999). "Conservation of sequence and structure flanking the mouse and human beta-globin loci: the beta-globin genes are embedded within an array of odorant receptor genes." <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>96</u> : 5129. GenBank Accession Number: <b>Q9Y5P1</b>
	C5 ✓	Courtney, L. et al. (1999). Direct Submission. GenBank Accession Number: <b>O95013</b>
	C6 ✓	Feingold, E. et al. (1999). "An olfactory receptor gene is located in the extended human beta-globin gene cluster and is expressed in erythroid cells." <i>Genomics</i> <u>61</u> : 15. SWALL (SPTR) Accession Number: <b>Q9UKL2</b>
	C7 ✓	Issel-Tarver, L. and Rine, J. (1996). "Organization and expression of canine olfactory receptor genes." <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>93</u> (20): 10897-10902. GenBank Accession Number: <b>Q95156</b>
	C8 ✓	Issel-Tarver, L. and Rine, J. (1996). Direct Submission. GenBank Accession Number: <b>Q13606</b>
	C9 ✓	Issel-Tarver, L. and Rine, J. (1996). Direct Submission. GenBank Accession Number: <b>Q13607</b>
	C10 ✓	Issel-Tarver, L. and J. Rine (1996). "Organization and expression of canine olfactory receptor genes." <i>Proc Natl Acad Sci U S A</i> <u>93</u> (20): 10897-10902.
	C11 ✓	Krautwurst, D. et al. (1998). "Identification of ligands for olfactory receptors by functional expression of a receptor library." <i>Cell</i> <u>95</u> (7): 917-926.
	C12 ✓	Lane, R. et al. (2000). "Genomic Analysis of Orthologous Mouse and Human olfactory receptor Loci Indicates Cluster Stability Yet Minimal Conservation Beyond the Coding Sequence." Direct Submission. SWALL (SPTR) Accession Number: <b>Q9EP67</b>

NOV 30 2001

RECEIVED



RECEIVE  
NOV 30 2001

TECH CENTER 1600/290

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C13	Leibovici, M. et al. (1996). "Avian olfactory receptors: differentiation of olfactory neurons under normal and experimental conditions." <i>Dev. Biol.</i> <u>175</u> : 118. SWALL (SPTR) Accession Number: <b>Q90808</b>
	C14	Malnic, B. et al. (1999). "Combinatorial receptor codes for odors." <i>Cell</i> <u>96</u> (5): 713-723.
	C15	Malnic, B. et al. (1999). "Combinatorial receptor codes for odors." <i>Cell</i> <u>96</u> : 713. SWALL (SPTR) Accession Number: <b>Q9WU89</b>
	C16	Malnic, B. et al. (1999). "Combinatorial receptor codes for odors." <i>Cell</i> <u>96</u> : 713. SWALL (SPTR) Accession Number: <b>Q9WU93</b>
	C17	Malnic, B. et al. (1999). "Combinatorial receptor codes for odors." <i>Cell</i> <u>96</u> (5): 713-723. GenBank Accession Number: <b>AF121979</b>
	C18	"Olfactory Receptor 1; OLFR1." Online Mendelian Inheritance in Man (OMIM): Accession Number: <b>164342</b> (downloaded 11/12/01)
	C19	Parmentier, M. et al. (1992). "Expression of members of the putative olfactory receptor gene family in mammalian germ cells." <i>Nature</i> <u>355</u> (6359): 453-455.
	C20	Rost, B. et al. (1996). "Topology prediction for helical transmembrane proteins at 86% accuracy." <i>Protein Sci</i> <u>5</u> (8): 1704-1718.
	C21	Rouquier, S. et al. (1999). "Sequence and chromosomal localization of the mouse ortholog of the human olfactory receptor gene 912-93." <i>Mamm. Genome</i> <u>10</u> : 1172. SWALL (SPTR) Accession Number: <b>Q9QY00</b>
	C22	Rouquier, S. et al. (1998). "A gene recently inactivated in human defines a new olfactory receptor family in mammals." <i>Hum Mol Genet</i> <u>7</u> (9): 1337-1345.
	C23	Smith, S. (1999). Direct Submission. SWALL (SPTR) Accession Number: <b>Q9Y3N9</b>
	C24	Thomas, M. et al. (1996). "Chemoreceptors expressed in taste, olfactory and male reproductive tissues." <i>Gene</i> <u>178</u> (1-2): 1-5.
	C25	Tsuboi, A. et al. (1999). "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." <i>J. Neurosci.</i> <u>0</u> : 0. SWALL (SPTR) Accession Number: <b>Q9R0K3</b>
	C26	Tsuboi, A. et al. (1999). "Olfactory neurons expressing closely linked and homologous odorant receptor genes tend to project their axons to neighboring glomeruli on the olfactory bulb." <i>J. Neurosci.</i> <u>0</u> : 0. SWALL (SPTR) Accession Number: <b>Q9R0K4</b>
	C27	Vanderhaeghen, P. et al. (1997). "Specific repertoire of olfactory receptor genes in the male germ cells of several mammalian species." <i>Genomics</i> <u>39</u> (3): 239-246.
	C28	Walensky, L. et al. (1998). "Two novel odorant receptor families expressed in spermatids undergo 5'-splicing." <i>J Biol Chem</i> <u>273</u> (16): 9378-9387.
	C29	Wu, T. et al. (1999). "Minimal-risk scoring matrices for sequence analysis." <i>J Comput Biol</i> <u>6</u> (2): 219-235. (ABSTRACT ONLY)
	C30	Xie, S. et al. (2000). "Characterization of a cluster comprising approximately 100 odorant receptor genes in mouse." <i>Mamm Genome</i> <u>11</u> (12): 1070-1078.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.